

Abstract

This invention relates to the process of preparation and application of a plural component, fast cure phenolic / polyurea elastomer coating co-polymer system. The disclosed coating system is prepared from the reaction of an isocyanate component and an amine terminated resin blend component. Each of the two components may individually or both contain a phenolic resin based product as part of the active hydrogen donation for the reaction with the isocyanate. These phenolic / polyurea co-polymers are characterized as having significantly improved chemical resistance and lower moisture vapor transmission through the coating system over conventional polyurea elastomer coating systems, thus making the coatings suitable for highly corrosive environments.